



Avid Certified



# HD EXPRESS

PCI express video interface for Avid® Media Composer®

- Certified by Avid — directly compatible with Avid Media Composer, Symphony Nitris, and NewsCutter.
- HDMI video capture and monitoring for Mac & PC — Capture uncompressed-quality, digital HD from HDMI-equipped camcorders. Monitor pixel for pixel on today's latest plasma and LCD screens. RGB HDMI output supports HP DreamColor displays.
- Analog video I/O — Capture and monitor component HD or SD, plus composite and S-Video (NTSC or PAL).
- Tower or laptop operation — connects to an Avid-qualified Mac or PC tower via PCI Express for ultra-fast workstation use or laptop via ExpressCard connectivity for mobile operation.
- Comprehensive video capture & monitoring — supports all standard SD and HD video formats up to and including 1080p30 (720p, 1080i, 1080p & 1080PsF).
- Captures and plays uncompressed HD and SD — 10-bit 4:2:2 color depth and 1920x1080 resolution.
- Support for all Avid-supported codecs — capture full-raster 1080 or 720 XDCAM, DNxHD, DVCPro HD, ProRes, or other Avid-supported codecs. Monitor any formats supported by Avid Media Access (AMA).
- Support for file-based workflows — lets you capture, edit and monitor in any codec supported natively in Media Composer or AMA, with no transcoding needed.
- Broadcast quality — 10-bit 4:2:2 signal path throughout.
- ASC CDL color grading — provides flexible, industry-standard color adjustment with separate settings for capture and playback.
- Comprehensive audio — Capture 8 channels of embedded HDMI audio. Play back stereo, 5.1 or even 7.1 surround sound directly to powered speakers. Connect speakers, a home theater amp or an audio mixer and monitor your mix in stereo or full 5.1 or 7.1 surround sound. Also provides S/PDIF digital I/O with sample rate conversion.
- Half rack space form factor with dedicated connectors — no cable swapping or gangly, inconvenient breakout cables. Includes rack mounting brackets.



# HD EXPRESS specifications



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## Video I/O

- 1 x HDMI in and out (4:2:2 10-bit, YCbCr or RGB, RGB output supports HP DreamColor displays)
- Support for DVI output with HDMI-to-DVI adapter (sold separately)
- 1 x HD/SD component in and out (10-bit, YPbPr or RGB) on RCA
- 1 x composite in (10-bit) on RCA
- 1 x S-Video in (10-bit) on 4-pin mini-DIN
- 1 x composite in and out (10-bit CVBS) on shared RCA
- 1 x S-Video in and out (10-bit Y/C) on shared RCA



## Video formats

- SD — 576i25 (PAL), 480i29.97 and 486i29.97 (NTSC)
- HD — 720p23.976, 720p24, 720p25, 720p29.97, 720p30, 720p50, 720p59.94, 720p60, 1080p23.976, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080PsF23.976, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30, 1080i25, 1080i29.97, 1080i30



## Audio I/O

- 12 channels of simultaneous audio input
- 16 channels of simultaneous audio output
- Supports all standard audio sample rates from 44.1 to 96kHz
- 8 x RCA analog outputs
- 2 x RCA analog input
- 2 x S/PDIF digital input and output with sample rate conversion
- 8 x HDMI embedded audio in and out
- Front panel headphone jack with dedicated volume control

*To add SDI capture and monitoring, along with RS-422 device control and other advanced features, check out the rack-mountable HDX-SDI.*

## Color grading

- Apply industry standard color adjustments to your video signal during either capture or monitoring.
- The HD Express video console software provides separate color grading controls for capture and monitoring.
- In each case, ten parameters are provided and together determine the color transfer function, as defined by the American Society of Cinematographers Color Decision List (ASC CDL) specification (version 1.2).

## Included software and compatibility

- Cross-platform operation on Avid-qualified Mac and Windows systems

## Dimensions

- Chassis dimensions, excluding rack ears and front and back panel knobs and connectors: 19 x 7 x 1.75 inches (48.26 x 17.78 x 4.45 cm).
- Knobs and connectors extend up to 0.5 inch (1.27 cm) from front and back panels, adding 1 inch (2.54 cm) to depth. With rack ears attached, fits standard 19 inch (48.26 cm) rack at 1U high.



*The HD Express and HDX-SDI connect to PCI-equipped towers and ExpressCard34-equipped laptops.*



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